



US 20140313021A1

(19) **United States**

(12) **Patent Application Publication**
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(10) **Pub. No.: US 2014/0313021 A1**

(43) **Pub. Date: Oct. 23, 2014**

(54) **HAPTIC DEVICE FOR PEDESTRIAN
NAVIGATION**

(52) **U.S. Cl.**

CPC **G08B 6/00** (2013.01)

USPC **340/407.1**

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ABSTRACT

An apparatus comprises a first magnetic plate; a second magnetic plate oriented parallel to the first magnetic plate, magnetically coupled to the first magnetic plate, and slidable relative to the first magnetic plate; a dielectric material positioned between the first magnetic plate and the second magnetic plate; and a contact in communication with the first magnetic plate and the second magnetic plate through which a voltage is applied, the voltage generating a signal that is responsive to a task performed on a mobile device, the signal providing a haptic effect to the first magnetic plate and the second magnetic plate upon sliding of the first magnetic plate relative to the second magnetic plate.

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(21) Appl. No.: **13/864,582**

(22) Filed: **Apr. 17, 2013**

Publication Classification

(51) **Int. Cl.**
G08B 6/00

(2006.01)

